

## **SkillsUSA Kentucky Official Contest Descriptions** **Official Tool Lists and Clothing Requirements**

The official rules for each event are found in the 2011-2012 “*SkillsUSA Championship Technical Standards*” book, the national web site, and the 2011-2012 Technical Standards CD. Contest specifications can be found under Contest Projects on the national web site (there is a charge to access this information) .

**In order to qualify for a local, regional, state or national competition, membership dues must have been paid to the national SkillsUSA office.**

**For your convenience, we have listed brief contest descriptions, official tool lists, and clothing requirements for all official SkillsUSA Kentucky competitive events. All contests are listed alphabetically. These requirements will be utilized during the 2012 Leadership and Skills State Conference.**

**NOTE: If additional tools and/or materials are needed for an individual contest, a special listserv message will be sent. Updated changes to previous contest tool lists are coded in yellow.**

### **3-D Visualization and Animation**

Mimics the real world production environment where creative output must be accomplished within specific timeframes, resources and design constraints. This is a two-person event. Contestants must produce high quality images and an animated short subject using 3D computerized images. Students are tested on their technical knowledge, production skills and creative/artistic abilities. Take the written SkillsUSA state exam and do storyboarding (visual planning). See Technical Standards for specific rules and regulations.

#### **Tool List**

**1 USB Drive**, Drawing Materials to create Storyboards and approximately \$5.00 to purchase Glossy Paper

#### **Clothing**

For men: Official white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official white polo shirt with black dress slacks or skirt, black socks or black or clear seamless hose and black leather shoes.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams

2 Collegiate Teams

## **Action Skills**

A five to seven minute demonstration of an occupational skill in an area in which a student is training. Contestants use examples, experiments, displays or practical operations to clearly explain their skills using contestant-prepared visual aids. See Technical Standards for specific rules and regulations.

### **Clothing**

Contestants may wear SkillsUSA official attire or official attire for the occupation area of the demonstration.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Advertising Design**

Tests technical skills and creative aptitude just as though contestants worked for an ad agency. Competitors produce a mechanical/color separation using traditional manual skills of measuring, inking, cutting amber, color registration, photo scaling, type kerning and leading. They also produce a mechanical layout on the computer. The creative portion involves the application of creative thinking and development of a design problem. Layout, drawing and illustration are used. See Technical Standards for specific rules and regulations.

### **Tool List**

#2 Pencil, Color Pencils, Markers, Sketch Pad, **USB Drive, include cutting board or mat, X-Acto Knife, Metal Ruler, Scissors,** and approximately \$5.00 for Glossy Paper

### **Clothing**

For men: Official white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official white polo shirt with black dress slacks or skirt, black socks or black or clear seamless hose, and black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Architectural Board Drafting (State Only)**

The contest will assess skill performance by providing an Architectural design problem that will be solved in two phases: first, by using freehand sketching and secondly, by using board drafting techniques.

### **Tool List**

For the freehand sketching phase, contestants will use “standard sketching tools”. Only pencils and erasers will be allowed. For the board drafting phase, contestants may use “standard board drafting instruments and tools”, such as scales, straight edges and t-squares. Contestants will be allowed to bring one textbook or reference book to use during the contest. Graph Paper and Vellum will be provided by Sullivan College of Technology & Design.

### **Clothing**

For men: Official white polo shirt with black dress slacks, black socks and black leather shoes.

For women: official white polo shirt with black dress slacks or skirt, black socks or black or skin tone seamless hose with black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School 2 Collegiate

## **Architectural CADD Drafting**

Gives contestants a problem consisting of background information, building requirements, and a description of architectural drawings. Students must develop an appropriate plan, in four to five hours, from design notes and instructions. Judges look for correct solutions to the problem, line work, layout and accuracy. See Technical Standards for specific rules and regulations.

**MAKE sure students bring a computer, copy of CAD software and surge protector**

### **Tool List**

- a. **Technical pencil and vinyl eraser**
- b. A personal computer, monitor and input devices or laptop computer. Computers may be obtained from any source. (Note: the setup and configuration, and the tear-down of all computer hardware used in the contest will be the responsibility of the contestant.)
- c. Technical software of choice
- d. Students may bring published computer aided drafting reference books, software manuals, published drafting reference books, tables and calculators. Reference materials may not take up more than 1 cubic foot of space and may not be shared by contestants.
- e. **a 25 ft. extension cord and surge protector.**
- f. A floppy disk or flash drive.

### **Clothing**

For men: Official white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official white polo shirt with black dress slacks or skirt, black socks or black or skin tone seamless hose with black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Automated Manufacturing Technology**

A team contest for three students. The contest evaluates teams for employment in integrated manufacturing technology fields of computer aided drafting/design (CAD), computer aided manufacturing (CAM), and computer numerical controlled machining (CNC). CAD operators construct the part geometry; the CAM operator generates the tool paths; and the CNC operator sets up and machines the part. See Technical Standards for specific rules and regulations.

### **Tool List**

6 inch caliper (digital or vernier), Non-programmable calculator, Pencils and paper, Machinery's Handbook, Deburring Tools (files, emery cloth, etc.), Blank 3 ½ Floppy Dicks, 2 Computers (one with licensed CAD program and one with licensed CAM software), Soft stock to practice on the day before (optional) 2x3 rectangle. Please make sure that the computers do not have to be logged into from a network or by the administrator in order to run.

When we know who will be attending state we will send out a sample code to make sure that your post processor will function properly, there will also be someone at state to make sure that it is working with the machines that are being used.

### **Clothing**

Official khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **Automotive Service Technology**

Includes hands-on tasks and a written test during a four to five hour period. Hands-on task stations could include: engine repair, brakes, transmission electrical service, and engine performance testing using the latest service scan tools. Contestants are also tested on their knowledge of automotive computers. A written test parallels the National Technician Certification test from the National Institute for Automotive Service Excellence (ASE). See Technical Standards for specific rules and regulations.

### **Tool List**

All items needed for contest participation will be available at each testing station; however contestants may bring the following. Electrical Testing Equipment to include Volt-oh-meter, Battery Test Equipment, and a Scan Tool of their choice, Brake Tools and Measuring Equipment of their choice, Air Conditioning Gauge Set of their choice.

### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

1 High School    2 Collegiate

## **Aviation Maintenance Technology**

Contestants perform tasks that represent the types of maintenance they will handle in the aircraft industry. The contest scope is consistent with the airframe and power plant mechanics certification guide published by the FAA. Aviation maintenance is the only maintenance profession certified by the federal government. See Technical Standards for specific rules and regulations.

### **Tool List**

Contact State Contest Chair for required tool list.

### **Clothing**

Official light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

## **SkillsUSA Kentucky Banner**

The contest requires the development of a Banner to be used at the SkillsUSA National Conference. The Banner will be the work of one individual. Submitted size: 11" x 17".

### **Clothing List**

Contestant must wear official SkillsUSA attire (see clothing requirements on page 9 of the Leadership Handbook)

### **Region/District Contestant Numbers (Contestants that can be sent to state conference)**

3 High School                      3 Collegiate

### **Broadcast News Production (TV News Anchor)**

The contest assesses skills through the development, design, and delivery of a newscast production in a simulated environment. See Technical Standards for specific rules and regulations.

#### **Tool List**

Contest Chair will furnish all tools and materials.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (See official attire requirements on page 9 of the SkillsUSA Leadership Handbook)

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

### **Building Maintenance**

For students entering custodial services. They are tested on floor care (Stripping and buffing of resilient flooring), general office cleaning, carpet care (hot water extraction and bonnet methods), window cleaning, dispenser servicing, and equipment and chemical identification. See Technical Standards for specific rules and regulations.

#### **Tool List**

Contest Chair will furnish all tools and materials.

#### **Clothing**

Official khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Cabinetmaking (Skill Event)**

Requires the building of a small cabinet from materials and drawings supplied. Contestants are expected to read the drawings, lay out and cut the parts using a table saw, laminate trimmer, hand drill, hinge boring machine and various hand tools. The parts must be accurately assembled, sanded and adjusted to tolerances specified by the judges. See Technical Standards for specific rules and regulations.

#### **Tool List**

Claw Hammer, Utility Knife, Tape Measure, One Set of Wood Chisels ¼ in. to 1 in., Cabinet Scaper, Sanding Block, Block Plane, Combination Square, 2 Flat & 2 Phillips (#1 & #2) Screwdrivers or a 4-n-1 Tool, 2 Pencils, a Pencil Compass, 2 8 in. Parallel Jaw or C Clamps, Awl, Calculator, 10 in. or 12 in. Mill Bastard Flat file, Nail Sets 1/32 in., 1/16 in., 3/32 in., Center Drills w/counter sink #6, #8.

#### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Cabinet Making & Design (Leadership Event)**

The contest requires the development of a cabinet making project (some type of furniture) at the contestant's school and transported to the contest site. Skill will be evaluated through the interview process, the project, and the scrapbook. The project's maximum size is 30" wide x 96" tall x 18" deep.

#### **Material List**

Notebook that includes photos of steps taken to produce project, and a description of each step.

#### **Clothing**

Contestants must wear official SkillsUSA attire (see clothing requirements on page 9 of the Leadership Handbook)

#### **Region/District Contestant Numbers (Contestants that can be sent to state competition)**

3 High School                      3 Collegiate

### **Carpentry**

Contestants must build and complete a project specifically designed to test overall carpentry skills including framing, exterior trim, and stair building. They are judged on accuracy, ability to read and interpret blueprints, workmanship, and the proper use of tools and equipment. See Technical Standards for specific rules and regulations.

#### **Tool List**

Safety Glasses, Pencils, Speed Square, Nail Apron, Framing Square w/rafter tables, Hammer, Circular Saw, Hand Saw, Nail Puller (Cats Paw), Pry Bar (Wonder Bar), Chalk Line, Saw Horses, Extension Cord (25' to 50'), Airplane Snips or Metal Snips, Magnetic Holder w/straight and Phillips Tips, Hacksaw, Metal Bits (1/16, 1/8, 3/16, 1/4, 5/16, and 3/8) Saw Horses or Metal Brackets.

#### **Clothing**

Official Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

1 High School                      2 Collegiate

### **Carpentry I**

Contestant must build and complete a project specifically designed to test first year training skills of a Carpentry I student.

#### **Tool List**

Safety Glasses, **HARD HAT**, Tool Box, Claw Hammer, Nail Apron, Framing/Speed Square, Pencils, C Clamps, Measuring Device, 2' to 4' Level, Portable Circular Power Saw, 100' Extension Cord, saw horses, Electric Drill or Battery, 1/4", 3/8" , & 1/2" Spade or Twist drill bits, Screwdriver bits for drill Squarehead and Phillips

#### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

1 High School                      1 Collegiate

## **Chapter Business Procedure**

A team contest evaluating students' ability to conduct business meetings for a SkillsUSA chapter according to the order of business published in *Robert's Rules of Order – Newly Revised*. See Technical Standards for specific rules and regulations.

### **Clothing**

Contestants must wear SkillsUSA official attire. (See clothing requirements on page 9 of the Leadership Handbook)

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **Chapter Display**

Selects the outstanding promotional exhibit designed and constructed by SkillsUSA student members. The display is built around and articulates a common theme established annually by SkillsUSA ("Champions at Work") See Technical Standards for specific rules and regulations.

### **Clothing**

Contestants must wear SkillsUSA official attire. (See clothing requirements on page 9 of the Leadership Handbook)

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **CNC Milling**

An upper-level CNC (computer numerically controlled) programming and machining contest. Contestants receive a part, drawing and materials and are asked to write the computer program, set up the machine and produce the part with the use of CAD/CAM. Only the final part and safe working practices, not the CNC program, are evaluated. Check the national web site for contest tips. See Technical Standards for specific rules and regulations.

### **Tool List**

0-1in. micrometer; 6 in. Caliper (digital or veneer), Non-programmable Calculator, Pencils and Paper, Machinery's Handbook or student version (optional but the only 2 books permitted), Deburring Tools (files, emory cloth, etc.), Blank 3 ½ Floppy Disks, Pentium II Computer with CD-ROM drive and a 3 ½ Floppy, Soft Stock to practice on the day before (optional) 1 in. round, 2x3 rectangle.

### **Clothing**

Official khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **CNC Turning**

An upper-level CNC (computer numerically controlled) programming and machining contest. Contestants receive a part, drawing and materials and are asked to write the computer program, set up the machine and produce the part with the use of CAD/CAM. Only the final part and safe working practices, not the CNC program, are evaluated. Check the national web site for contest tips. See Technical Standards for specific rules and regulations.

### **Tool List**

0-1 in. Micrometer; 6 in. Caliper (digital or veneer), Non-programmable Calculator, Pencils and Paper, Machinery's Handbook or student version (optional but the only 2 books permitted), Deburring Tools (files, emery cloth, etc.), Blank 3 ½ Floppy Disks, Pentium II Computer with CD-ROM drive and a 3 ½ Floppy, Soft Stock to practice on the day before (optional) 1 in. round, 2x3 rectangle.

### **Clothing**

Official khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Automotive Refinishing Technology (Collision Repair Technology)**

Requires contestants to: analyze structural damage and prepare repair estimates; align body and frame; conduct plastic identification and repair; metal working including MIG welding; paint using new paint systems; and, pass a written test. Contestants are judged on the overall appearance of the finished product, speed and proper safety practices. See Technical Standards for specific rules and regulations.

**Tool List:** Contestants will need to bring their standard tools/equipment

### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

1 High School Teams              2 Collegiate

## **Commercial Baking**

### **Equipment and Materials**

1. Supplied by the technical committee:
  - a. All necessary equipment and food items
  - b. All necessary information and furnishings for judges and technical committee
2. Supplied by the contestant (at *least* one of each, but more per item than specified is acceptable):
  - a. One palet knife
  - b. One hand whip
  - c. One large kitchen spoon
  - d. Three pastry bags, tips and scissors



- e. One bowl scraper
- f. One dough knife
- g. One serrated knife
- h. One pastry wheel
- i. One bench brush
- j. One grease brush
- k. One pastry brush
- l. One rolling pin
- m. Three side towels
- n. One cleaning towel
- o. One set of nested mixing bowls (1, 2 and 3 qt.)
- p. One cake comb
- q. Thermometer
- r. Timer
- s. No other food items allowed (i.e. sprinkles, decorettes, etc.)
- t. A small (battery powered or spring) scale (2 lb. to 4 lb. capacity)

#### **Scope of the Contest**

1. The contest will be geared toward the commercial (retail) baking business rather than commercial restaurant business.
2. Contestants will be given a written test covering basic baking science and scheduled during a contestant meeting held before the practical contest.
3. The performance phase of this contest will be the actual preparation of goods and presentation of finished products ready for sale to customers.
4. Contestants will be given a predetermined selection of all necessary food items. Spoiled or burnt supplies will not be replaced.
5. Contestants will prepare a total of seven products: six baked goods made from scratch and /or from a fresh or frozen dough, and one iced and decorated cake. The products will be selected by the Commercial Baking Technical Committee from the following categories. Committee membership includes Culinary Institute of America, Food Marketing Resources Inc., LaBonbonniere Bake Shoppes, Quality Pastry Shop Inc., Reinwald's Bakery, The Retailer's Bakery Association and Wal\*Mart Inc.

**One product each from the following categories:**

- Yeast Breads and Rolls
- Quick Breads (No Yeast)
- Sweet Dough Products
- Cookies
- Basic Cake Decorating

**Two products selected from one or more of the following categories:**

- Danish Pastry (Laminated and Yeast Dough)
- Puff Pastry (Laminated Dough)
- Pate a Choux Products
- Pie and Pie Crust Pastry
- Cakes
- Frosting – Icing and Glazes

6. Contestants will receive product formulas and other instructions on the day of the performance test. The specific products will be drawn from the list below, according to the format described in No. 5.

a. **Yeast Breads and Rolls**

1. Straight dough formula – soft rolls, such as Parker House, clover leaf, butter rolls
2. Whole wheat bread and rolls
3. Light rye, dark rye, marble rye and pumpernickel bread
4. French or Italian dough hard rolls, French

**Clothing**

White pants or black-and-white checkered chef's pants, white chef's shirt or coat, white or black leather work shoes, white apron, white chef's hat (paper or cloth) and hairnet. A white chef's scarf is optional.

**Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

**Community Service**

Evaluates local chapter activities that benefit the community. SkillsUSA chapters present their best community service project for the year to a panel of judges. Contestants are evaluated on: (1) a scrapbook reporting the chapter's community service project and (2) A live presentation by a chapter team of two to three members. The team may be a mix of secondary and postsecondary students. See 2008 Technical Standards for specific rules and regulations.

**Clothing**

Contestants must wear SkillsUSA official attire. (See official clothing requirements on page 9 of the Leadership Handbook)

**Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

**Computer Maintenance Technology**

Consistent with the industry standards as outlined by the Computer Technology Industry Association (CompTIA) A+ Certification. Contestants take a computer-based exam. They also troubleshoot both hardware and software problems in a series of workstations, and install and configure hardware. Software problems relate to DOS and Windows operating systems. Some of the workstations require interaction between contestants and judges including demonstration of customer service. Contestants are evaluated on their speed, diagnostic and standard industry procedures, accuracy of adjustments and correct component replacements. See Technical Standards for specific rules and regulations.

**Tool List**

Static Wristband and PC Tool Kit, and Paper and Pencils.

**Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black slacks or skirt, black socks or black or clear seamless hose, and black leather shoes.

**Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Cosmetology**

Competitors will demonstrate skills in ladies and men's haircutting and styling. They will create consumer fashion statements on mannequins as well as live models. The contest also includes oral communication assessments focusing on customer service, telephone skills and platform presentation. See Technical Standards for specific rules and regulations.

### **Tool List**

Cutting Shears, Thinning Shears, Razor and Spare Blade, Clipper, Thermal Tools (flat iron and/or curling iron), Blow Dryer, Styling Products of Choice, Finishing Spray, Combs, Brushes, Spray Bottle (filled with water), Towel, Rollers (no brush or Velcro types permitted), Clippies or hair clips,

### **Clothing**

For men: Official SkillsUSA white dress shirt, black dress slacks, black socks, and black leather dress or work shoes.

For women: Official white top, black dress slacks, black socks or black or skin-tone hose, and black leather dress or work shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Creed (State Only)**

During the introduction each contestant will explain what the Creed means to him or her, then recite all of the latest version of the SkillsUSA Creed contained in the SkillsUSA Leadership Handbook. The introduction will not exceed one minute. Students may use note cards, if desired. See Contest information sheets (Located on SkillsUSA Kentucky website) for specific rules and regulations.

### **Clothing**

Contestants must wear SkillsUSA official attire. (See official clothing requirements on page 9 of the Leadership Handbook).

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Crime Scene Investigation**

The contest will include activities that simulate situations encountered by criminal investigation professionals. See Technical Standards for specific rules and regulations.

### **Tool List**

Contact Contest Chair for tool list and materials required.

### **Clothing**

Official light blue SkillsUSA work shirt, navy pants, and black or brown leather work shoes. Skirts or high heeled shoes are not permitted.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams              2 Collegiate Teams

## **Criminal Justice**

For student preparing to be police officers or to work in other areas of criminal justice. Typically this contest will utilize both written examination and practical exercises to evaluate the contestants' abilities and knowledge of the field. The contestants are scored on their knowledge and application of U.S. Constitutional Law, written and verbal communication skills and their ability to handle an entry-level law enforcement position. See Technical Standards for specific rules and regulations.

### **Tool List**

Contact Contest Chair for tool list and materials required.

### **Clothing**

Official light blue SkillsUSA work shirt, navy pants, and black or brown leather work shoes. Skirts or high heeled shoes are not permitted.

## **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School

3 Collegiate

## **Culinary Arts**

### **Equipment and Materials**

1. Supplied by the technical committee:
  - a. Contest problem (menus, recipes, instructions)
  - b. All necessary food items, seasonings, etc.
  - c. Contest site organized (work stations, ranges, refrigeration, access to product and additional equipment) in as fair a manner possible for each and every contestant.
  - d. All cookware and small wares necessary for food preparation.
  - e. All necessary platters, dishes, and china necessary for food presentations.
  - f. All necessary information and furnishings for industry judges and members of the technical committee.
2. Supplied by the contestant:
  - a. No. pencil (2 ea.), small note pad if desired
  - b. Knife kit and cook's tools
    1. French cook's knife
    2. Paring knife
    3. Vegetable peeler
    4. Knife steel
    5. Boning knife
    6. Cook's fork
    7. Slicing knife (meat)
    8. Serrated slicing knife
    9. Fillet knife
    10. Utility knife
    11. Offset spatula
    12. Cook's tongs (8-12 in.)
    13. Meat thermometer (pocket type)
    14. Professional Cook's Tool Kit
      - a. Citrus zester

- b. Channel knife
- c. Parisienne scoop
- d. Apple corer
- e. Tournier knife
- f. Canape cutters
- g. Plastic squeeze bottles

**NOTE:** No electrical devices can be allowed (food processors, blenders and hand mixers will be available).

### **Scope of the Contest**

The Culinary Arts competition is designed to show each contestant's abilities to properly perform the tasks and skills necessary to be a successful food-service industry employee. Competencies are focused toward the commercial restaurant, hotel and catering professions.

1. Contestants will demonstrate their ability to perform jobs and skills selected from the following list of competencies as determined by the SkillsUSA Championships technical committee. Committee membership includes American Culinary Federation, Ameristar Corp., Hyatt Regency Crown Center, Marriott Country Club Plaza and the Culinary Institute of America.
2. The performance phase of this contest will be the actual preparation of food and arrangement of food on plates or platters and in dishes ready for serving to the customer. (The contest does not include the actual serving of food to the customer).
3. Hot food preparation **may** include any of the following:
  - a. Hot appetizers
  - b. Soup cookery
  - c. Entrée preparation
  - d. Stock and sauce preparation
  - e. Vegetable cookery
  - f. Starch cookery
  - g. Basic dessert preparation
  - h. Egg and breakfast cookery
  - i. Quickbreads
4. Cold food preparation **may** include any of the following:
  - a. Accompaniment salad
  - b. Salad dressings
  - c. Cold hors d'oeuvres or appetizers
  - d. Chilled soups
  - e. Canape preparation
  - f. Crudite

### **Clothing**

White or black work pants or black and white checkered chef's pants, white chef's jacket, white or black leather work shoes, white apron, white neckerchief, side-towels and a hairnet and white chef's hat (toques), food handler's gloves.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School

2 Collegiate

### **Customer Service**

Evaluates students' proficiency in providing customer service. The contest involves live, role-playing situations. Contestants demonstrate their ability to perform customer service in both written and oral forms including telephone and computer skills, communications, problem solving, conflict resolution, and business etiquette. See 2008 Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SillsUSA official attire. (See official clothing requirement on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Debate (State Only)**

Evaluates each team's ability to debate a given topic, related to SkillsUSA, career and technical education, education in general or current events. The topics will be developed by the chair person and announced to the teams at the contest orientation session. See Contest information sheets (Located on SkillsUSA Kentucky website) for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

### **Desktop Publishing (State Only)**

Contestants will be required to complete a given assignment within the allotted time, using materials provided by the contest chair. Contestants shall make three thumbnail sketches, prepare rough layouts of best thumbnail sketch, create project on Macintosh computer, and print spot color separations and composite.

#### **Tool List**

Tools and materials furnished by Contest Chair.

#### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks, and black leather shoes.

For women: Official SkillsUSA white polo shirt with black dress slacks or black skirt, black socks or black or skin tone seamless hose, and black leather shoes.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Diesel Equipment Technology**

Contestants cycle through work stations testing; basic engines; troubleshooting engines; electrical-electronics; chassis; transmissions; carriers; hydraulic systems; vehicle inspection; fundamental failure analysis, brake systems; air-conditioning; general shop skills; and a written test. See Technical Standards for specific rules and regulations.

### **Tool List**

Wayne Supply will provide all the tools/equipment necessary for the contest; however contestants are permitted to bring their own digital multi-meter (optional).

### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

## **Electronics Applications**

Consists of three sections, the first requires to logically troubleshoot functional building blocks of electronics systems, using modern test equipment on audio systems, power supplies, microprocessors, digital technology and video systems. The second evaluates soldering and de-soldering skills, workmanship and assembly techniques in constructing an electronics project. The third part is a written exam on safety procedures, electronic devices and electronics concepts. See Technical Standards for specific rules and regulations.

### **Tool List**

Contact Contest Chair for specifics.

### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks, and black leather shoes.

For women: Official SkillsUSA white polo shirt with black dress slack or skirt, black socks or black or skin tone seamless hose and black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Electronics Technology**

A contest divided into four sections testing contestants' knowledge of: analog and digital circuitry; ability to troubleshoot electronic circuits; ability to construct and test experimental circuits; to design and select circuit components; and to assemble an electronic circuit. All aspects of the competition test contestants' abilities to use and calibrate electronic equipment, record and organize data, and demonstrate proper safety practices. See Technical Standards for specific rules and regulations.

### **Tool List**

Safety Glasses, Digital Meter, Wire Strippers, and a Pair of Long Nose Pliers.

### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks, and black leather shoes.

For women: Official SkillsUSA white polo shirt with black dress slack or skirt, black socks or black or skin tone seamless hose and black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Esthetics/Facials Demonstration**

Contestants will supply a full-face photo\* (at least a 5x7) of the model\* without makeup and with hair pulled away from the face and wearing a White Headband. Contestant will complete a full-face Daytime Makeup Application, Evening Makeup Application - a day to evening conversion on the model's\* full face, and Fantasy Makeup Application – application will be done on a mannequin\*. See Contest Demonstration Individual Standard.

#### **Tool List**

Contact Contest Chair for complete tools/materials list.

#### **Clothing**

Men: Official SkillsUSA white dress shirt, black dress slacks, black socks, and black leather work or dress shoes.

Women: Official SkillsUSA white dress shirt, black dress slacks, black socks or black or skin-tone hose, and black leather work or dress shoes.

#### **Region/District Contestant numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

### **Extemporaneous Speaking**

Requires contestants to give a three to five minute speech on an assigned topic with five minutes of advance preparation. Contestants enter the preparation area one at a time where they are given a speech topic. They are judged on voice, mechanics, platform deportment, organization and effectiveness. See Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Extemporaneous Writing (State Only)**

Extemporaneous Writing was designed to evaluate each contestant's ability to develop a written essay that will convey an original public relations message about SkillsUSA Kentucky to the general public. The essay will be written during the designated contest time, while at the SkillsUSA Kentucky conference. (Located on SkillsUSA Kentucky website) for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (See Official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams



## **Firefighting**

The Firefighting contest is designed to evaluate the contestants' ability to perform firefighting skills. Contestants will demonstrate their ability to perform skills selected from the IAFF/ICHIEFS Candidate Physical Ability Test (CPAT) Menu and National Fire Protection Association 1001, Firefighter I, 2002 Edition. See Technical Standards for specific rules and regulations.

### **Tool List:**

Contest Chair will send a listserv message concerning tools

### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

## **Green & Healthy School Project (Leadership Event)**

A notebook will be compiled that describes the school's project. A live presentation will be given by the team (2 – 3 members) with each member participating. The team will be evaluated on the note and presentation.

### **Materials List**

Laptop computer or visual equipment as necessary for the presentation. Note cards if desired.

### **Clothing List**

Contestants must wear official SkillsUSA attire (see clothing requirements on page 9 of the Leadership Handbook)

### **Region/District Contestant Numbers (Contests that can be sent to state competition)**

3 Teams High School                      3 Teams Collegiate

## **First Aid/CPR**

Evaluates contestants' ability to perform procedures or take appropriate action based on first aid scenarios including: adult, infant and child CPR; choking; bleeding; seizures; drowning; burns; head, neck or back injuries; dislocations and broken bones; eye injuries; diabetic emergencies; sprains, wound care, and heart attack. There is also a written exam. All skills are judged on nationally accepted standards identified by the American Red Cross for first aid emergencies and the American Heart Association for CPR. **A contestant must be enrolled in/or have completed ISX 120.** See Technical Standards for specific rules and regulations.

### **Tool List**

All contestants need to FAX a copy of their CPR and First Aid Cards to: Lucy Landers at (502) 213-4287 by March 21.

**Clothing:** Contestants need to wear official SkillsUSA scrubs, white socks or clear seamless hose and health professional's white leather work shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Food and Beverage**

### **Equipment and Materials**

1. Supplied by the technical committee:
  - a. All equipment, “food”, beverages, chairs, tables, flatware, trays, table settings, cloths and napkins. Guest checks, check presentation folders, contest materials, menus and description of the daily Chef’s featured dishes will be provided.
2. Supplied by the contestant:
  - a. One ink pen (blue or black)
  - b. No. 2 pencil for written test
  - c. Hair restraint if hair extends below the collar (Hair that extends below the collar must be restrained)
  - d. Table crumbers, lighters or note pads are optional

### **Scope of the Contest**

1. The contest will focus on guest service and guest relations in the dining room and “front of the house” skills of guest hospitality and food and beverage services. Contestants should be prepared to perform the duties of a dining room server as well as seating host.
2. Contestants will demonstrate their ability to perform jobs or skills from the following list of competencies as determined by the national technical committee. Committee membership includes: Aramak, Brancato’s, Eddy’s Catering and the Missouri Restaurant Association.
  - a. **Table Setup (to be supplied by contestant)**
    1. Various table cloth arrangements
    2. Various napkin arrangements, both paper and cloth
    3. Centerpieces (optional vase and flowers, candle, condiments and optional base/service/show plate) – demonstrate ability to position these items
    4. Silverware, china and flatware settings, both formal and informal (see *SkillsUSA Leadership Handbook*, Page 71, for general setting guidelines)
    5. Guest accommodation and placement of chairs
  - b. **Host/ Guest Relations (perform role of host)**
    1. Greeting and welcoming guests to the restaurant (“The SkillsUSA Grill” at national competition)
    2. Reservations procedures
    3. Escorting guests to tables and seating
    4. Host will present menus and then withdraw from table
  - c. **Presentation of Menus (perform the role of dining room server/ waiter/ waitress)**
    1. Ability to describe food selections on the menu including a soup of the day, chef’s features and a demonstration of overall menu including beverages, salad dressings and desserts (Contestants should be capable of basic menu selling techniques as well as

handling guest questions, potential complaints and problems with product availability)

**d. Greeting and Service Technique**

1. Taking guests' orders
  2. Beverage service (water and possible iced tea and soft drinks)
  3. Bread and butter presentation
  4. Serving first course
  5. Serving entrée
  6. Serving dessert and coffee
  7. Clearing the table after each course
  8. Preparation and presentation of the check
  9. Picking up the check, returning for payment and conclusion of service
3. Actual food from a kitchen may or may not be used, depending on the facility. Mock plates will be used. Beverages will be served.
4. Contestants will be judged on personal appearance, tableside manner, professionalism, ease with guests, courtesy, general knowledge, and technical and verbal skills.
5. Presentations will be made to actual "guests" who may or may not also rate contestants, as well as the judges also present.

**Clothing**

Official SkillsUSA white long sleeved dress shirt, black dress slacks or skirt, plain black tie with no pattern or SkillsUSA black tie from Midwest Trophy, black leather work shoes, black socks or hose and (optional) black belt. No waiter's jackets, bow ties, cummerbunds or vests are permitted.

**Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

**Graphic Communications**

Contestants will produce a printable page using a computer and page layout software. Each will be required to run a job on an offset duplicator, set up the duplicator, preparation of inks and moisture units, paper path adjustments and other adjustments as necessary. These could be one and/or two color jobs. Contestants will be required to do some production planning laying out jobs and planning them through the production cycle. Contestants will be required to produce a job through digital workflow to make plates and/or proofs. In the finishing area, contestants will be required to setup and fold at least one small job on a folder. See Technical Standards for specific rules and regulations.

**Tool List:** Contest Chair will furnish all materials and tools

**Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks, and black leather shoes.

For women: Official SkillsUSA white polo shirt with black dress slack or skirt, black socks or black or skin tone seamless hose and black leather shoes.

**Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Heavy Equipment Technology (State Only)**

### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **HVACR (Heating, Ventilation, Air Conditioning & Refrigeration)**

Contestants are tested on their ability to perform such jobs as troubleshooting then recommending service and repair, brazing, air measurement and troubleshooting, electrical troubleshooting, and refrigerant recovery. They are judged on the basis of their use of tools and test equipment, speed, accuracy, and safety. See Technical Standards for specific rules and regulations.

### **Tool List**

**Multi-meter, refrigerant gauges, Micron Gauge, Swaging Tools, Allen Wrenches, Digital Temperature Gauge, Flaring Tool, Hacksaw, Combination Wrench Set, Needle Nose Pliers, Refrigeration Wrench, Standard Pliers, Tubing Cutter, Tube Bender, Amprobe Meter, Sling Psychrometer, Safety Glasses, Adjustable Wrenches, Channel Lock Pliers, Digital Manometer, Inspection Mirror, Claw Hammer, Flash Light, Nut Drivers (assorted), Screw Drivers (both kinds), Tape Measure, Vice Grips (Regular).**

**JCTC will furnish the following tools: Vacuum Pump, Electronic Scale, Recovery Tank, Recovery Machine, Oxy/Acetylene Torches.**

Assorted Phillips and straight screwdrivers, ¼ in. and 5/16 in. nutdrivers, wire strippers, pliers and channel locks, safety glasses with side shields or goggles, and optional items are thermometers and volt/ohm meter.

### **Clothing**

Official khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Industrial Motor Control**

Requires contestants to install electrical wiring for industrial motor controls and other devices used in an industrial setting; design and troubleshoot electrical diagrams using proper test instruments; and demonstrate the proper and safe use of hand tools. All of the work must conform to the specifications of the National Electrical Code. See Technical Standards for specific rules and regulations.

### **Tool List**

**cordless drill, charger, #2 Phillips bit, and spare battery**

Diagonal Pliers, Side Cutters, Long Nose Pliers, Wire Snippers, Knife, Assorted Flat Blade and Phillips Screwdrivers, Rule and Measuring Tape, Electrician's Hammer, Hacksaw, Torpedo Level, Electrical Tape and Connectors, Crimping Tools, ½ in. EMT Conduit Bender, Multimeter, Latest Edition of the National Electrical Code as of the January prior to the SkillsUSA Championships, Supplies for drawing ladder diagram (pencil, straightedge, etc.), Calculator.

**Clothing:** Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Interior Design (State Only)**

### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

## **Internetworking**

Includes a written exam, and a hands-on evaluation. The hands-on portion tests students' abilities to design, install, and maintain computer Internetworks. Given a set of networking equipment (Cable, hubs, routers, etc.), students must – in a fixed amount of time – install a network on which Internet applications run. The written test questions are taken from several general internetworking topic areas. See Technical Standards for specific rules and regulations.

### **Tool List**

Crimpers and Wire Cutters/Strippers

### **Clothing**

For Men: Official SkillsUSA white polo shirt with black dress slacks, black socks, black leather shoes, safety glasses with side shields.

For women: Official SkillsUSA white polo shirt with black slacks or skirt, black socks or black or skin-tone seamless hose, black leather shoes, and safety glasses with side shields.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Job Application Process**

(For Special Needs) This contest evaluates the contestant's readiness for applying for employment in their occupational areas and understanding the process and procedures required.

### **Materials List**

3 copies of resume, 1 copy of portfolio, and an ink pen.

**Clothing:** Contestants must wear official SkillsUSA attire (See clothing requirements on page 9 of the Leadership Handbook)

### **Region/District Contestant Numbers (Contestants that can be sent to state competition)**

3 High School                      3 Collegiate

### **Job Interview**

Divided into three phases: completion of employment applications; preliminary interviews with receptionist; and, in-depth interviews. Contestants are evaluated on their understanding of employment procedures faced in applying for positions in the occupational area for which they are training. See Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Job Placement Readiness Demonstration (Special Needs)**

Job Placement readiness is designed to evaluate a contestant's readiness for applying for employment in their occupational area, and understanding the process and procedures required.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Job Skill Demo A**

Contestants demonstrate and explain an entry-level skill used in the occupational area for which they are training.

**Competitors in Job Skill A must demonstrate a career objective in an occupational area that is included in one of the contest area of the SkillsUSA Championships.** See Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire (see official clothing requirements on page 9 of the Leadership Handbook) or official attire for the occupational area of the demonstration.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Job Skill Demo O**

Contestants demonstrate and explain an entry-level skill used in the occupational area for which they are training.

Contestants in Job Skill B may demonstrate skills in any career objective for which they are training. See Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire (see official clothing requirements on page 9 of the Leadership Handbook) or official attire for the occupational area of the demonstration.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Major Appliance Technology**

Contestants' soft skills are tested by interaction with judges who play the part of a customer with a problem. The competitor is then to troubleshoot and find the problem with the appliance and then explain to the judge what the problem is, trace the problem out on the schematic and explain what the repair will be. They must also complete a brazing segment representing a small refrigeration system and complete a written test. See Technical Standards for specific rules and regulations.

**Tool List:** Contact Contest Chair for tools and materials required.

### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

## **Marine Service Technology**

The contest is defined by industry standards as established by the American Suzuki Motor Corp., American Marine Institute, Mercury Marine, Volvo Penta of the Americas, and Yamaha Motor Corp. The contest includes four skill stations assessing skills in two- and four-stroke engines, outboard and stern drive applications, and two- and four-stroke inboard troubleshooting repair.

### **Tool List**

All tools and equipment furnished by contest chair.

### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

## **Masonry**

Requires the building of a brick and concrete masonry units. The freestanding work employs various bonds and material positions and uses design features universally used in contemporary and historical masonry including piers, masonry bonds, rowlocks and foundations. Contestants are judged on aspects vital to wall performance including level, plumb, full mortar joints, and symmetric bonding. The competition also judges students on safety and whether their workmanship is neat and clean. See Technical Standards for specific rules and regulations.

### **Tool List**

Trowel, Hammer, Mason Brush, Modular Rule, Spacing Rule, Four Foot Level, Two Foot Level, Jointer, Line and Line Blocks.

### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Mechatronics**

Requires contestants to understand the new industrial discipline of “Mechatronics,” the ability to understand complex systems that integrate various elements in the mechanical, fluid power, and controls domain, combined with the ability to work in a team environment with people of different areas of expertise. Mechatronic specialists must therefore have well developed skills in pneumatic technology, electrical and electronics systems, mechanical systems and general automation techniques and practices, including systematic troubleshooting methods. This competition consists of different events to measure the skills required in the modern automated manufacturing environment. Contestants will be required to assemble, adjust and test an automated machine system, troubleshoot and repair a faulty machine system, and take a comprehensive written test. The elements have been designed to be as realistic as possible, closely resembling the tasks and activities of modern automation professionals. See Technical Standards for specific rules and regulations.

### **Tool List: Contest Chair will supply....**

#### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Nail Care**

Evaluates contestants’ preparation for employment in the field of nail care. Contestants demonstrate their ability to perform jobs or skills including in their work area and on models including: initial preparation; product and tool control; tip and wrap application; sculptured application; cuticle and nail groove; shape and length; arch and C-curve; surface finish; lacquer/polish; wearable nail art application; overall results of workmanship and written examination. See Technical Standards for specific rules and regulations.

### **Tool List**

**Each student needs to bring the products and supplies they are planning to use. They will want to use the brands/systems they are used to working with.**

#### **Items to bring to state:**

- Pedicure on one foot: Footbath, products, and implements for performing a pedicure. Colored nail enamel of your choice.
- Oral presentation on natural nails: products and/or implements to use as props if desired. **No written materials or poster board may be used.**
- Sculptured nails- one hand: acrylics nail products, implements, and abrasives. No electric files/drills allowed. Monomers, polymers, and primers must be from the same system/manufacturer.
- Tips and wraps one hand: Fiberglass/silk/paper wrap system, implements, and abrasives.
- Polish/nail art: Dark red nail enamel for sculpted hand. Art supplies for wrap hand, only paint or polish may be used and assorted nail art brushes. **No** glitter, rhinestones, crystals, feathers, or adornments of any kind allowed.
- Models can be set up with story board/easel if desired. Props may be added.
- Written description of nail art theme: One page type written may be decorated and must be placed in a plastic sleeve/report cover.
- Resume



### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black slacks or skirt, black socks or black or clear seamless hose, and black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Opening and Closing Ceremonies**

A teamwork and oral presentation contest that evaluates the team's understanding of the symbolic representation of the colors and assembled parts of the SkillsUSA emblem. Each team includes seven registered members in the roles of president, vice president, parliamentarian, reporter, treasurer, secretary and optional officer (chaplain). See Technical Standards for specific rules and regulations.

### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **Outstanding Chapter**

Evaluates local chapter activities that benefit the student members, the school, and the community. Outstanding chapters are chosen each year to serve as an example of the enthusiasm and careful planning necessary to keep chapters active and to involve as many members as possible in activities. A competing chapter organizes the year's activities and records them in an official SkillsUSA scrapbook. See Technical Standards for specific rules and regulations.

### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Team

## **Photography**

To evaluate each contestant's preparation for employment and to recognize outstanding students for excellence and professionalism in the field of (still) photography. The contest is defined by industry standards. The contest is divided into two parts: a written exam testing overall photographic knowledge and a skill performance.

### **CLOTHING REQUIREMENT:**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black dress slacks or skirt, black socks or black or skin-tone seamless hose and black leather shoes.

**Computers will be provided.**

**Tools: Participants will need cameras capable of working in a manual mode.**

### **Pin Design**

Encourages local SkillsUSA members to promote the organization, career and technical education and related occupational training through a promotional state trading pin. The pin must carry out a theme-related to SkillsUSA (“Champions at Work”). Students will be evaluated on a presentation and the pin’s design, creativity and originality.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Pledge (State Only)**

During the introduction part of the Pledge contest, each contestant will explain what the Pledge means to him or her, and then recite, in its entirety, the latest version of the SkillsUSA Pledge as written in the SkillsUSA Leadership Handbook. The introduction shall not exceed one minute.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (See official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Plumbing**

Contestants “rough in” hot and cold water lines with copper to a water heater and the sanitary drainage waste and vent lines with cast iron and PVC plastic for a water closet. A lavatory and a washer box. Completed projects are pressure tested on the water pipes. Professional plumbers and pipe fitters judge the contestants on the basis of accuracy, workmanship, proper selection and use of tools and supplies, and proper safety practices. See Technical Standards for specific rules and regulations.

#### **Tool List – will be sent out by ListServ**

#### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Poster (State Only)**

The SkillsUSA Poster contest is designed to evaluate the contestants' ability to develop and prepare a SkillsUSA Kentucky promotional Poster.

### **Clothing**

Contestants must wear SkillsUSA official attire. (See official clothing requirements on page 9 of the Leadership Handbook).

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Power Equipment**

The contest assesses understanding of two-cycle and four cycle engines, 2 through 40 horsepower, and of both L-head and overhead valve design, as well as both single and twin cylinder design, drive train and hydraulic drive trains. See Technical Standards for specific rules and regulations.

### **Tool List**

Contest Chair will furnish all tools and materials.

### **Clothing**

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Precision Machining Technology**

Contestants will compete in the National Institute for Metalworking Skills (NIMS) Level I and II manual machining skills and knowledge areas including operation of manual milling machines, lathes, drill presses, and surface grinders. Contestant knowledge of CNC programming skills using a PC will be evaluated. Related knowledge and skill in the areas of engineering drawing interpretation, GD&T, technical math, machining practices, use of precision measuring hand tools and ability to speak using proper industry terminology are also part of the competition. See 2009 Technical Standards for specific rules and regulations.

### **Tool List**

Safety glasses with full shields or goggles, Center Punch, 16 oz. Ball Peen Hammer, Wiggler, No. 3 Center Drill, Drills and Taps Lathe: 5/16 drill & 3/8-16 tap, 13/64 drill & ½ 20 tap, 23/64 drill, ¼ HSS Drill and .250 Grooving Tool for Lathe Project – Grind it on a 3/8 in. Blank HSS Tool, Taps and Drills Mill 19/64-31/64 Drill, 15/64 Drill, 3/8 in., 5/16 in., ½ in. Reamer, 90 Degree Countersink, Book with Trig Tables and Formulas – i.e. Machinery's Handbook, Paper and Pencils, .0005 Dial Test or Dial Indicator and Mounting Accessories so it can be used on the following equipment: 1 in Travel Indicator, Magnetic Base Indicator Stand, Milling Machine Spindle, Engine Lathe Tool Post-(optional), Surface Gauge (optional), High Speed Steel Lathe Tool Bits, 3/8 Tools HSS, Quick Change Tool Holders Supplied, No Carbide Tools permitted, 0 to 1 in. Outside Micrometer and 1 in. to 2 in. Outside Mill, 2 in. to 3 in. Mic (no electronic or digital permitted), Center Gage, 6 in. Scale, Screw Pitch Gage, File with Handle – 8 in. or 10 in. Single Cut Mill, Pre-ground 5/16 in. HSS or b Tool Bits for Lathe 13 to 20 TPI Range, 6 in. Dial or Vernier Caliper and 4 in. to 5 in. Mike Permissible (no electronic or digital permitted), 0 to 3 in. Depth Micrometer (no electronic), ½ in. End Mill, Edge Finder – Standard Type (electronic type not permitted), File Card, Surface Finish Gage with 63 Mill Finish Sample (end mill permitted), 8 in. to 10 in. Adjustable Wrench, Needle Nose Pliers and Tap Handle

### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

1 High School

2 Collegiate

### **Prepared Speech**

Requires students to deliver a speech five to seven minutes in length on a common theme established by National SkillsUSA early in the school year. Contestants are evaluated on their ability to present thoughts relating to a central theme clearly and effectively, and on voice, mechanics and platform deportment. See Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School

2 Collegiate

### **Promotional Bulletin Board**

Judges bulletin board displays created by SkillsUSA chapters. The bulletin boards promote SkillsUSA, career and technical education in general, and related occupational information. An oral presentation is also included. This year's theme is "Champions at Work". See Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (See official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams

2 Collegiate Teams

### **Quiz Bowl**

Evaluates five-member teams on their knowledge of general academic subjects including basic mathematics, spelling, science, geography, history and current events. Each team member also takes a written test. Quiz Bowl also covers SkillUSA knowledge, parliamentary procedure and the Professional Development Program.

The Quiz Bowl has its own Web site. Log onto <http://quizbowl.wflboces.org/Home Page.htm>

See the Technical Standards for specific rules and regulations.

#### **Clothing**

Contestants must wear SkillsUSA official attire. (see official clothing requirements on page 9 of the Leadership Handbook).

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams

2 Collegiate Team

### **Related Technical Math**

On a written test, contestants demonstrate skills required to solve mathematical problems commonly found in the skilled trades and professional and technical occupations. Skills demonstrated include addition, subtraction, multiplication, and division of whole numbers, fractions and decimals; applied word problems; percentages; ratio proportions; average area; volume; metric measures and traditional (Imperial) measures and trigonometry. Math formulas and Related Technical Math tests are available on the national web site. See Technical Standards for specific rules and regulations.

#### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black slacks or skirt, black socks or black or clear seamless hose, and black leather shoes.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Residential Wiring (Now: Electrical Construction Wiring)**

Contestants are required to complete a written test, a practical conduit bending exercise and a hands-on installation and wiring exercise. Working from drawings and specifications sheets, contestants required to install residential wiring and electrical devices. Judging is on the basis of general workmanship, accuracy of layout and installation, and adherence to the current national Electrical Code and standard industry safe practices. See Technical Standards for specific rules and regulations.

#### **Tool List**

Arc-joint Pliers, Assorted Flat Blade and Phillips Screwdrivers, ½ in. Conduit Bender for EMT, Conduit Reamer, Cordless Electric Drill with Extra Battery (Cordless only), ¾ in. Spade or Ship Auger Bit, Diagonal Pliers, Electrician's Hammer, Electrician's Knife (utility knife or box cutters will not be permitted), Hacksaw, Hex Key Wrenches (1/16 in. through 3/8 in.), Keyhole (Compass) Saw with Wood and Wallboard Blade, Measuring Tape or Folding Ruler, Multimeter (volt, ohms, amps), 2005 Electric Code, Needle Nose Pliers, Calculator (scientific and non-programmable), Pencil, Side Cutting Pliers, Tool Pouch or Medium Size Tool Box or Bag, Torpedo Level, Wire Snippers.

**Clothing:** Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

1 High School Teams                      2 Collegiate Team

### **Robotics**

This contest is designed to evaluate each contestant's preparation for employment in the engineering arena of robotics and automation with emphasis on the team approach to problem-solving in a work environment and to

recognize outstanding performance in the use of new work styles and technology by each contestant. See Technical Standards for specific rules and regulations.

### **Tool List**

Computer (if necessary), Wire Cutters/Diagonals 3” to “, Screw Drivers 3” to 6” (various sizes #1 Phillips, etc.), Long Nose/Needle Nose Pliers, Wire Strippers, Safety Glasses (2 Pair), 150 ft. #20-24 gauge wire (various colors), Allen Wrenches Set to include 5 mm, 3mm, 7/64 minimum, Multimeter with leads, Pencils (sharpened), 6’ or 12” ruler, Watch with second hand or Stop Watch, Power Screw Driver with various bits.

### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **Sheet Metal**

Contestants in the sheet metal contest are tested on their ability to perform such jobs as connecting sheet metal pieces with drive cleats, spot welding and riveting. Skills tested may include straight duct, transition fitting and 45 degree entry tap fitting. Professional sheet metal workers judge contestants on the basis of use of hand tools, correctness of layout and shop safety procedures. See Technical Standards for specific rules and regulations.

### **Tool List**

In the past contestant have brought their own tools, however if someone didn’t have adequate tools the contest chair will furnish a set for them to use during the competition.

### **Clothing**

Official SkillsUSA khaki work shirt and pants, black or brown leather work shoes and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Silkscreen**

Contestants will demonstrate their ability to perform the following tasks. Design and produce film copy on a computer. Print a job on a 4-station manual rotary screen printer (one or two color jobs). Contestants will prepare screens, set up a press, load a substrate, and make other adjustments as necessary. Participate in an oral professional assessment that could include an interview or a customer service situation. Complete the SkillsUSA written test.

### **Tool List**

Contestants are not required to furnish any materials or tools.

### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks, and black leather shoes.

For women: Official SkillsUSA white polo shirt with black dress slack or skirt, black socks or black or skin tone seamless hose and black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

3 High School                      3 Collegiate

## **Spelling (State Only)**

### **Clothing**

Contestants must wear SkillsUSA official attire. (See official clothing requirements on page 9 of the Leadership Handbook).

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Talent Show – Single Division (State Only)**

This contest is designed to stimulate interest in individual performance talents among SkillsUSA Kentucky Members by providing an opportunity for them to compete against their peers.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Talent Show – Group Division (State Only)**

This contest is designed to stimulate interest in group performance talents among SkillsUSA Kentucky Members by providing an opportunity for them to compete against their peers.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **Team Works**

This contest is designed to evaluate team preparation for employment and to recognize outstanding students for excellence and professionalism in the field of residential carpentry, masonry, plumbing, electricity, and teamwork skills. See Technical Standards for specific rules and regulations.

### **Tool List**

**Carpentry Portion:** Sawhorses, 6' Ladder, 25 ft. or 50 ft. Extension Cord, Hard Hats, Safety glasses, 2 ft., 4 ft. and/or Torpedo Levels, Tool Belt, Tape Measurers, Circular Saws, Sawzall (Reciprocating Saw), Drill 3/8 in. – 1/2 in. (Cord or Cordless) with #2 Phillips Bit, Hammers, Framing Square, Speed-Tri-or Combination Squares, Chalk Lines, Hand Saws, Nail Puller (Cats' Paw) and/or Nail Puller (Wonder Bar) and/or Crow Bar, Utility Knife (Straight and/or Hook Blades), Drywall or Keyhole Saw, Hand Clamps (Optional), and Stair Gauges (Optional).

**Plumbing Section:** Torch, Sandpaper, and Tubing Cutter, Flux, Solder, and Copper.

**Masonry Section:** (1) 4 FT. Level, (1) 2 Ft. Level, (1) Brush, (1) Jointer, (1) Sled Runner, (1) Brick Hammer, (1) Modular Brick Rule, (1) Framing Square, (1) Tool Bag, (1) Trowel, (1) Safety Glasses, (1) Tuck Pointer, and Pencils.

**Electrical Section:** Tool Pouch-Bag or Box, Diagonal Pliers (Should be high level type), Lineman's Pliers, Claw Hammer (Straight), Long-Nose Pliers, Slip Joint Pliers, Screw Drivers (Both Common and Phillips - #1, 2, 3), Folding Rule or Tape Measure, Wire Strippers (Not Automatic Type), Pocket Knife and/or Razor Knife, Work Gloves, Cordless Screwdrivers and Drills, Cable Ripper, Continuity Tester or O.V.M., Hacksaw and 1 Extra Blade, ½ in. EMT Conduit Blender with or without level, Electric Tape, All Required Safety Equipment, Safety Glasses, Hard Hat and proper Clothing Requirements.

**Clothing**

Official SkillsUSA khaki work shirt and pants, black or brown leather work shoes and safety glasses with side shields or goggles.

**Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams

1 Collegiate Teams

**Technical Computer Applications**

Tests students on installation, configuration and use of DOS, Windows 98/98/ME/XP Professional and Microsoft Office Professional (Outlook, Word, Excel, Access, Front Page, Publisher and Money.) The contest includes a written exam, an oral presentation and hands-on skill demonstration. See Technical Standards for specific rules and regulations.

**Tool List**

No tools are necessary. Contest chair will furnish tools.

**Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black slacks or skirt, black socks or black or clear seamless hose, and black leather shoes.

**Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School

2 Collegiate

**Technical Board Drafting (State Only)**

The contest will assess skill performance by providing a Mechanical design problem that will be solved in two phases: first, by using freehand sketching and secondly, by using board drafting techniques.

**Tool List**

For the freehand sketching phase, contestants will use "standard sketching tools". Only pencils and erasers will be allowed. For the board drafting phase, contestants may use "standard board drafting instruments and tools", such as scales, straight edges and t-squares. Contestants will be allowed to bring one textbook or reference book



to use during the contest. Graph Paper and Vellum will be provided by Sullivan College of Technology & Design.

#### **Clothing**

For men: Official white polo shirt with black dress slacks, black socks and black leather shoes.

For women: official white polo shirt with black dress slacks or skirt, black socks or black or skin tone seamless hose with black leather shoes

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School 2 Collegiate

### **Technical CADD Drafting**

Contestants demonstrate their ability to create and produce drawings/data files that solve industry developed engineer design problems. Contestants must generate a solid model of a component from an engineered problem and produce drawings from an engineered assembly. A CAD system – of the contestant's choice – is used to generate all drawings. See Technical Standards for specific rules and regulations.

**MAKE sure students bring a computer, copy of CAD software and surge protector**

#### **Tool List**

- a. Technical pencil and vinyl eraser
- b. A personal computer, monitor and input devices or laptop computer. Computers may be obtained from any source. (Note: the setup and configuration, and the tear-down of all computer hardware used in the contest will be the responsibility of the contestant.)
- c. Technical software of choice
- d. Students may bring published computer aided drafting reference books, software manuals, published drafting reference books, tables and calculators. Reference materials may not take up more than 1 cubic foot of space and may not be shared by contestants. Textbooks with tables in the back
- e. a 25 ft. extension cord and surge protector.
- f. A floppy disk or flash drive.

#### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black slacks or skirt, black socks or black or clear seamless hose, and black leather shoes.

#### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

### **Telecommunications Cabling**

For students interested in voice and data network cabling and installation. It tests worldwide standards for data and voice connections, physical and logical networks and signal transmission. Contestants demonstrate skills in reading network design documentation, part list set up and purchase, pulling and mounting cable, choosing wiring closets, patch panel installation and termination, installing jacks and cable testing. The contest stresses safety and working effectively in group environments. See Technical Standards for specific rules and regulations.

#### **Tool List**

Contestants should bring safety glasses with side shields or goggles, electrician scissors, 110 punch-down tool, and a volt-ohm meter for testing continuity.

### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black socks and black leather shoes.

For women: Official SkillsUSA white polo shirt with black slacks or skirt, black socks or black or clear seamless hose, and black leather shoes.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School                      2 Collegiate

## **Television (Video) Production**

Teams of two contestants are required to shoot a one-minute VHS video on location to convey the “theme” of the event. Editing is done in the contest area with special emphasis on professional production of the video by industry standards, quality of audio and video, and adequate conveyance of the “theme” to the viewer. This year’s theme is “Champions at Work”. See Technical Standards for specific rules and regulations.

### **Tool List**

A Camera (video) system capable of recording video and outputting video, S-Video, or Firewire IEEE-1394; One non-linear editing system; Microphone (wired and wireless); Two or more batteries and power supply/charger for camera; Two new blank videotapes (for your camera); 20’ AC Extension Cord; Outlet Power Strip; Tripod; Two DVD’s to record final product onto.

### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black leather shoes, and black socks, or Official SkillsUSA Dress.

For women: Official SkillsUSA white polo shirt with black dress slacks or skirt, black leather shoes and black socks or black or clear seamless hose or SkillsUSA Official Dress.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **Web Design**

The Web design project will be announced at the beginning of each year. The process must be documented, clearly demonstrating the skills listed. Check SkillsUSA website for more details. See Technical Standards for specific rules and regulations.

### **Tool List**

#2 Pencil, Ink Pen, Notebook to take notes.

### **Clothing**

For men: Official SkillsUSA white polo shirt with black dress slacks, black leather shoes, and black socks, or Official SkillsUSA Dress.

For women: Official SkillsUSA white polo shirt with black dress slacks or skirt, black leather shoes and black socks or black or clear seamless hose or SkillsUSA Official Dress.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

2 High School Teams                      2 Collegiate Teams

## **Welding (Skill Event)**

Competitors receive contest drawings and a set of welding procedure specifications. All drawings, welding symbols and welding terms conform to the latest edition of the American Welding Society standards. Through a series of stations, contestants are tested on various aspects of welding; measuring weld replicas, using weld measuring gauges, laying out a plate and using oxy-acetylene equipment to cut several holes that are checked for accuracy and quality; gas metal arc welding (GMAW) on steel making welds in various positions using short circuiting transfers; and, using a combination machine capable of providing the correct welding current for shielded metal arc (SMAW) and gas tungsten arc welding (GTAW). Competitors complete the steel project and weld an aluminum project in various positions using a variety of filler metals. See Technical Standards for specific rules and regulations.

### **Tool List**

Hearing and/or Ear Protection, Welding Helmet with appropriate filter plate/lens and protective cover plate/lens in a flip or side front. Auto darkening shields are permissible, Welding Helmet with appropriate filter plate/lens and protective cover plate/lens in a flip or side front for OFC, PAC. Auto darkening shields are permissible, Spare Spatter and filter lenses/plates for arc welding helmet and oxyacetylene goggles, Pocket Calculator, Lead Pencil and/or Ballpoint Pen, Soap Stone with Holder, Scribe with Magnet, Combination Square Set, 10 mfoot (3.1 meters) Steel Tape Measure, Fillet Weld Gauge Set, 16 ounce Ball Peen Hammer, Center Punch, 10 in. Vice Grips, 6 in. side cutting pliers or diagonal Cutting Pliers, 6 in. Needle Nose Pliers, Chipping Hammer with or without Wire Brush and Stainless Steel Wire Brush.

### **Clothing**

Official SkillsUSA Khaki work shirt and pants, black or brown leather work shoes, and safety glasses with side shields or goggles.

### **Region/District Contestant Numbers (Contestants that can be sent to state competitions)**

1 High School

1 Collegiate

## **Welding Fabrication**

### **1. Supplied by the technical committee:**

- a. All necessary welding equipment and materials
- b. All instructions and procedure sheets with drawings

### **2. Supplied by Contestant: (items marked with an \* are required)**

- (1) Hearing and or ear protection
- (2) \*Welding helmet with appropriate filter lens
- (3) \*Safety glasses
- (4) \*Oxy-Acetylene cutting goggles/ shield with appropriate filter lens
- (5) Spare lenses for helmet and goggles
- (6) Weld jig or magnet positioner. (Self Fabricated or Vender Made)
- (7) Calculator
- (8) Lead pencil or ball point pen
- (9) Soap stone
- (10) Scribe
- (11) \*Combination square set

- (12) English bench rule
- (13) \*Steel tape rule
- (14) Fillet weld gauge
- (15) \*Ball peen hammer
- (16) Center punch
- (17) Cold chisel
- (18) Torch striker
- (19) \*Vise grips
- (20) \*Vise or C Clamps
- (21) Pliers
- (22) \*Side cutting or diagonal cutting pliers
- (23) Needle nose pliers
- (24) \*10 inch half-round bastard file
- (25) \*Chipping hammer
- (26) \*Carbon steel wire brush
- (27) \*Stainless steel wire brush
- (28) Copper plate for balling tungsten
- (29) \*Torch tip cleaner
- (30) Practice Plates (MUST BE CLEARLY STAMPED "PRACTICE")
- (31) NO interpass grinding will be allowed.
- (32) Contestants shall NOT supply their own filler materials
- (33) Extension Cord (25' or longer)
- (34) Two 4" grinders (One with grinding disk, One with knotted wire wheel)
- (35) Contestants using unlisted or undeclared tools shall be disqualified from competition.
- (36) Hard Hats
- (37) Bar clamps.

### **Welding Sculpture (Leadership Event)**

The contest requires the development of a welding sculpture developed at the participant's school and transported to the contest site. Skill will be evaluated through the interview process, the sculpture, and scrapbook. The sculpture maximum size is 18" tall x 12" wide x 18" long.

#### **Material List**

Notebook with photos of each step done with a description of how sculpture was made.

#### **Clothing**

Contestants must wear official SkillsUSA attire (See clothing requirements on page 9 of the Leadership Handbook)

#### **Region/District Contestant Numbers (Contestants that can be sent to state competition)**

3 High School

3 Collegiate